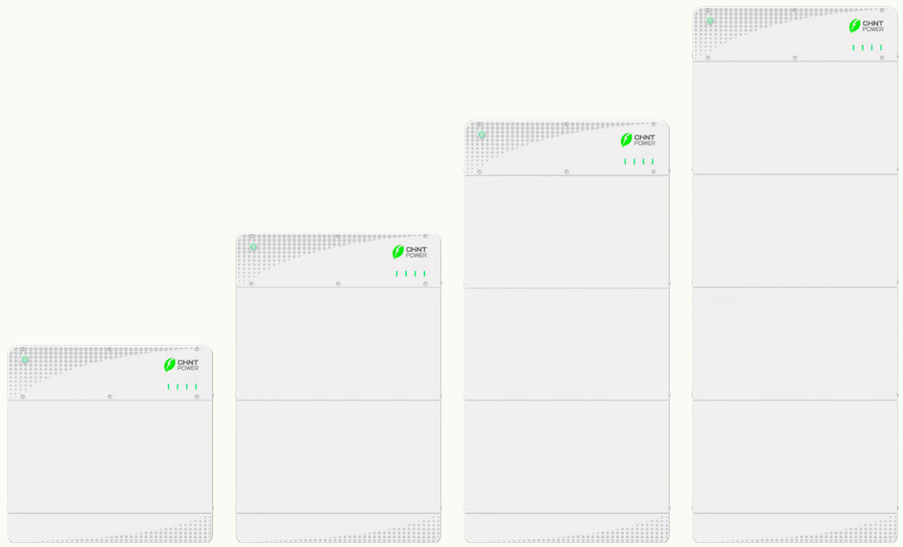
CPS ESSR-05/10/15/20KH1

High Voltage Residential Battery



Flexible

- Standard packs and control modules reduce inventory and design difficulties
- Working below -10oC with self heating

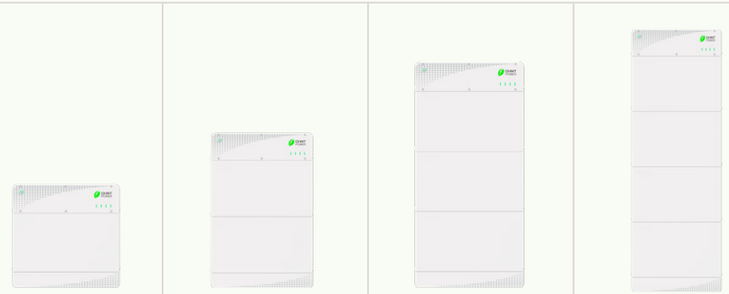
Strong

- C-rate up to 0.8
- 4kW for each pack. Get 10kW power from only 15kWh

Easy

- Reduce wiring work during pack install
- Automatically assign of BMS address

Technical parameters



Model	CPS ESSR-05KH1	CPS ESSR-10KH1	CPS ESSR-15KH1	CPS ESSR-20KH1
System Parameters				
Power Control Module	CPS ECD500	CPS ECD500	CPS ECD500	CPS ECD500
Battery Extension Module	CPS EBM032050LF-H	CPS EBM032050LF-H	CPS EBM032050LF-H	CPS EBM032050LF-H
Rated Voltage	102.4V	204.8V	307.2V	409.6V
Operating Voltage Range	89.6~115.2V	179.2~230.4V	268.8~345.6V	358.4~460.8V
Max Charge/Discharge Current	40A	40A	40A	40A
Max Power	4.0kW	8.1kW	12.2kW	16.3kW
Rated Charge/Discharge Energy	5.12kWh	10.24kWh	15.36kWh	20.48kWh
Useable Battery Energy	5.12kWh	10.24kWh	15.36kWh	20.48kWh
DOD	100%	100%	100%	100%
Weight	75kg	131kg	188kg	244kg
Dimension (W*D*H)	770*178*680mm	≈ 770*178*1040mm	≈ 770*178*1400mm	≈ 770*178*1760mm
Product Parallel Extension	Up to 61.44kWh	Up to 61.44kWh	Up to 61.44kWh	Up to 61.44kWh
Operating Temperature	Charge&Discharge: -10~50°C			
Working Humidity	5~95%	5~95%	5~95%	5~95%
Protection	IP65	IP65	IP65	IP65
EOL	70%	70%	70%	70%
Communication	CAN	CAN	CAN	CAN
Certificates	IEC 62619, IEC 63056, IEC 62040-1, IEC 62477-1, CE EMC, VDE 2510-50, UKCA, UN38.3			
Installation	Floor Mount & Wall Mount	Floor Mount & Wall Mount	Floor Mount & Wall Mount	Floor Mount & Wall Mount
Cooling	Natural	Natural	Natural	Natural
Altitude	≤ 3000m	≤ 3000m	≤ 3000m	≤ 3000m
Battery Extension Module				
Module	CPS EBM032050LF-H (Lithium-ion)			
Rated Charge/Discharge Energy	5.12kWh			
Dimension (W*D*H)	770*178*410mm			
Weight	56kg			
EOL	70%			
Power Control Module				
Model	CPS ECD500			
Operating Voltage Range	80~500V			
Max Charge/Discharge Current	40A			
Dimension (W*D*H)	770*178*220mm			
Weight	13kg			

* The certificates are for reference only. Please consult the local sales staff for detailed certification.